

Abstract

A superconducting cable according to the present invention includes a former [(2)], a superconducting conductor layer [(3)] formed around the outer circumference of the former [(2)], an electric insulating layer [(4)] formed around the outer circumference of the conductor layer [(3)], a shield layer [(6)] formed around the outer circumferential of the insulating layer [(4)], and a normal-conducting metal layer [(5)] formed between the insulating layer [(4)] and the shield layer [(6)]. The normal-conducting metal layer [(5)] existing inside shield layer [(6)] has an inductance greater than that of the shield layer [(6)], which can suppress a rise in temperature in the event of accidents such as short-circuits, and also can reduce AC losses since currents flow through shield layer [(6)] during the passage of normal currents.